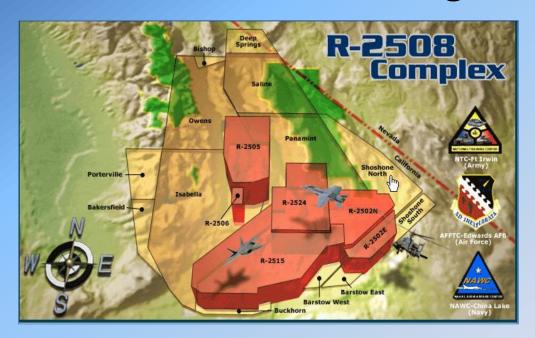


WELCOME!

R-2508 Central Coordinating Facility 100 East Sparks Drive, BLDG 2580 Edwards AFB CA 93524-8090 DSN 527-2508, Com 661-277-2508



R-2508 Users Briefing



We Hope to:

- Inform Users of Updates & Changes
- Review R-2508 Concept of Operations
- Highlight Areas of Concern "Staying Out Of Trouble"
- Identify Mission Profiles "What to Expect"
- Scheduling and Usage Procedures
- Address Your Concerns...



Concept of Operations

- VFR
- See and Avoid
- Non-Exclusive Use
 - Transponder Mode C
 - Accept Advisory Service
 - Active vs. Inactive Monitoring











Air Traffic Control (ATC) and Military Radar Unit (MRU) Services

- High Desert TRACON, "Joshua Approach"
 - Traffic & boundary calls, mission support
 - IFR/VFR Services as applicable
 - MOAs, ATCAAs, and R-2508
 - Released Internal Restricted Areas
- SPORT MRU, "SPORT" Traffic & boundary calls, mission support in R-2515
- Airspace Surveillance Center MRU (ASC)
 "China Control" Traffic & boundary calls,
 mission support in R-2505, R-2506, R2524













IFR Procedures

Not Authorized when SUA is Active

What to do if you encounter an IMC Condition...

- Advise Joshua Approach
- Expect IFR Clearance
 - On Top or Vectors to VMC
 - IFR Separation applied between IFR Aircraft only







Rapidly Maneuvering Aircraft

When able "Advise Joshua" when conducting rapid heading or altitude changes...









- ATC traffic calls are based on observed aircraft positions, headings, altitudes and radar limitations
- Rapid changes in heading or altitude may not be observed by ATC in time for the information to be issued in a timely manner
- When able, aircrews are encouraged to alert ATC when their flight profile will include rapid heading and/or altitude changes
- Example: "Joshua, Hawk 11 flight maneuvering FL250 to one five thousand"



Restricted Areas:

Schedule <u>R-2508</u> with CCF

• Schedule Internal Restricted Areas with Using Agency and CCF To Transit MOA/ATCAA Airspace

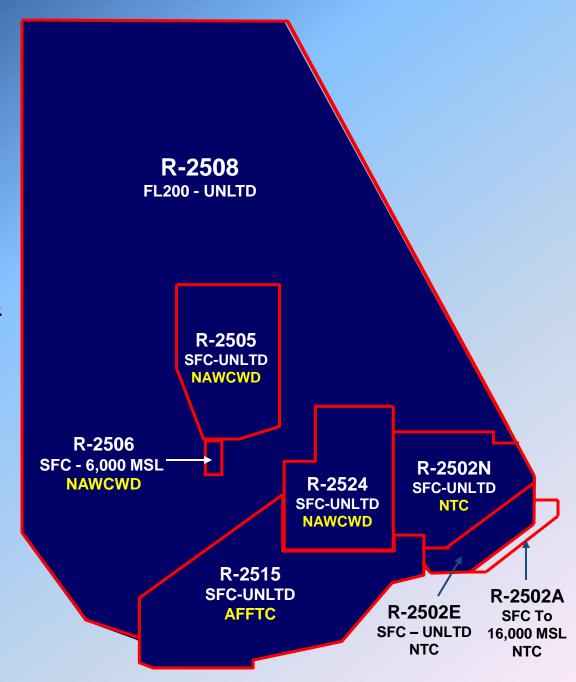
Using Agencies:

R-2505, R-2506, R-2524: NAWCWD

R-2515: AFFTC (ROC)

R-2502N, R2502E, R-2502A: NTC







MOA & ATCAA Airspace

JOSHUA APPROACH

Frequencies:

Isabella: 335.6/134.05

348.7/133.65

Owens: 322.3/126.55

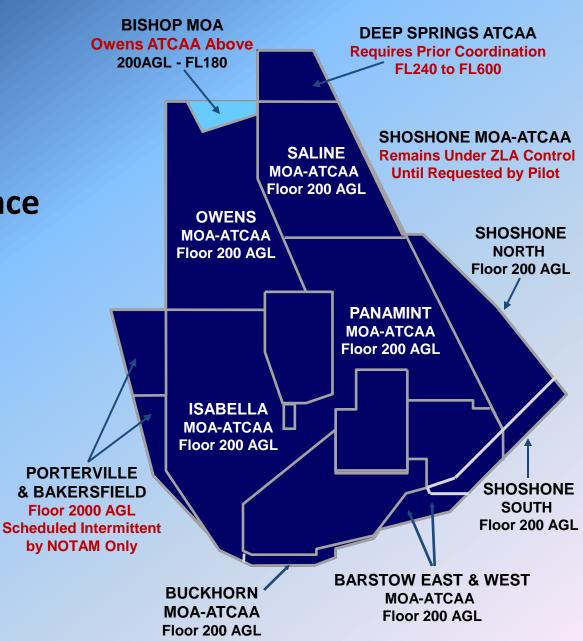
Saline: 256.8 123.95

Panamint: 291.6/120.25











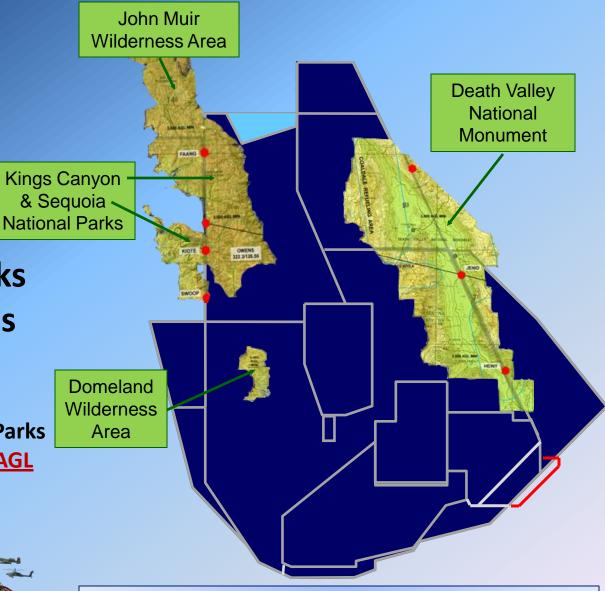
Overflight Restrictions of Parks & Wilderness Areas

Staying out of trouble...

Floor of MOA over National Parks and Wilderness Areas 3,000 AGL

- FLIP AP1 California
- FAA JO 7400.8





Remain at least 3,000 feet both Laterally and Vertically from National Parks and Wilderness Areas...
3,000 feet from Canyon Walls and Saddles





- Sequoia and Kings Canyon National Parks (SEKI)
 - All participating aircrews maintain an altitude of FL180 or above over SEKI unless specifically scheduled lower through CCF.
 - Annotate "SEKI" in Remarks Section of R-2508 Complex Airspace request Form.
 - Unscheduled operations below FL180 over SEKI are authorized at anytime for safety of flight considerations.
 - At no time will any participating aircraft descend below 3,000 ft AGL within the boundaries of SEKI except in an emergency situation. Lateral separation from SEKI is 3000 feet.



Noise Sensitive Areas Staying out of trouble...

All communities within the R-2508 Complex are considered "noise sensitive areas". Noise sensitive areas shall be avoided by 3000' AGL. The only exception to the 3000' restriction is while operating on an approved test plan.











Sonic Boom & Low Level Complaints

Areas of Highest Concern... Lake Isabella







Sonic Boom & Low Level Complaints

Areas of Highest Concern... Keeler







Sonic Boom & Low Level Complaints

Areas of Highest Concern... Lone Pine







Overflight Restrictions

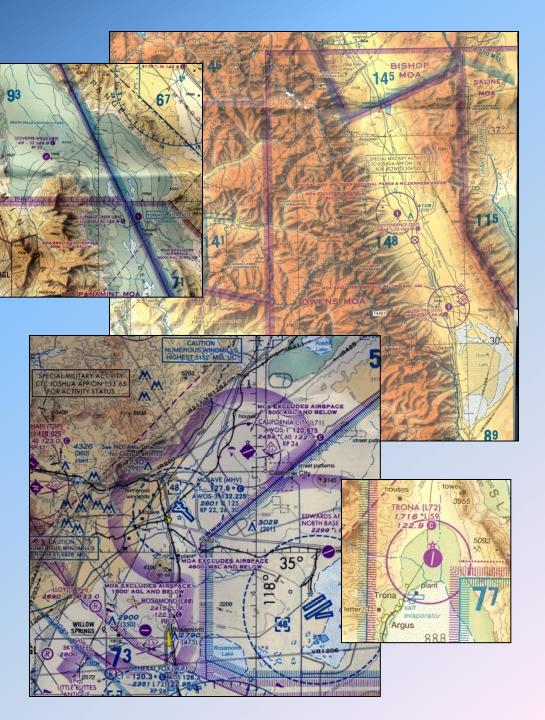
 Published Civil Airports: 1,500'AGL or 3 NM

- Mojave's Class D: 4,800' MSL and below
 - Airborne Tow operations
- Community Overflights: 3,000' AGL unless operating on an approved test plan
- <u>Temporary Flight Restrictions</u> (TFRs)
 - Land Management Activity
 - Fire-fighting Support Aircraft











TFR Incursions

Staying out of trouble...





SMOKE FROM FIRES - STAY AWAY!

Check NOTAMS Prior to Step

Check R-2508 Daily Brief Sheet



Green Flag Flow...

- IFR Routing... Enter/Exit via TUCKY BTY 209/18
- VFR Routing... Enter/Exit via Eagle Mountain
- Primary Refueling Area Coaldale (AROAL) 22K'
- Alternate Refueling Area Bangor22K'
- Lone Pine CAS Orbit Hold at 21K' then operate 20K' to 200 AGL in Owens MOA/ATCAA





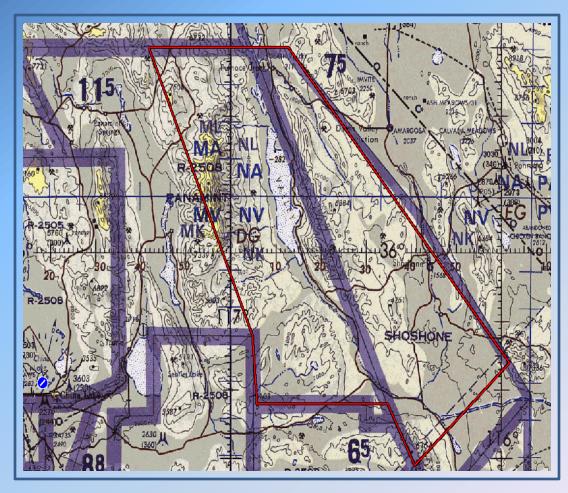






Skull Corner...

- Used by the AFFTC for ACBT
- Eastern half of Panamint MOA and ATCAA, Shoshone MOA and Shoshone North ATCAA from 200' AGL to FL 500
- Only one AFFTC user will be scheduled for Skull Corner at any one time.
- Shoshone airspace released to ZLA until the ACBT flight is airborne and requests activation.











NAS Lemoore...

Deconfliction Caps

Owens:

37° 05'N 118° 15'W to 36° 20'N 117° 55'W

Saline:

37° 05′N 117° 55′W to 36° 30′N 117° 30′W

Panamint:

36° 25'N 117° 25'W to 35° 55'N 117° 00'W

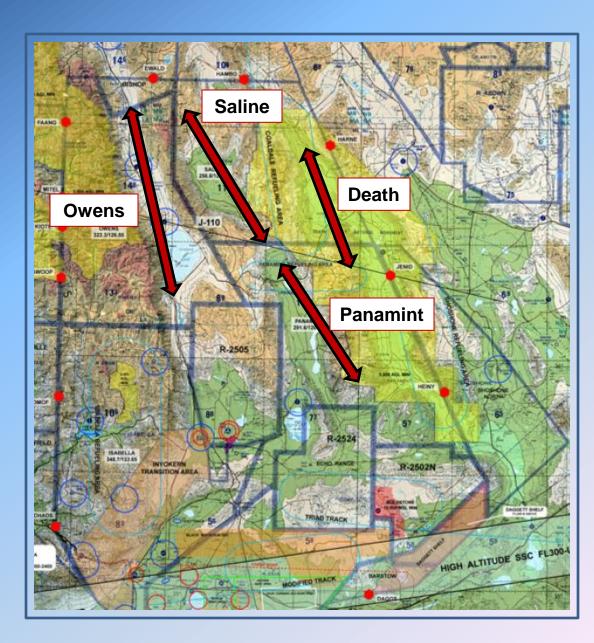
• Death:

36° 55'N 117° 20'W to 36° 25'N 117° 05'W





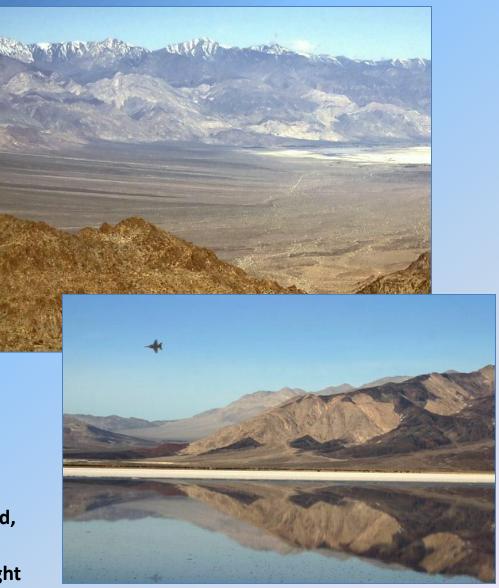






"Complex Common" Frequency 256.275 MHz

- Used as a Unicom for "airborne airspace coordination and deconfliction".
- Aircrews may request Joshua have desired aircraft "Come Up Complex Common"
- Aircrews request off frequency (if necessary) with Joshua before switching to Complex Common.
- Once coordination/deconfliction is completed, report back up on Joshua frequency.
- Not be used as a discrete mission or inter-flight frequency."
- Not monitored by any Joshua Approach, China Control, or SPORT.











Fresno ANG - NAS Lemoore...

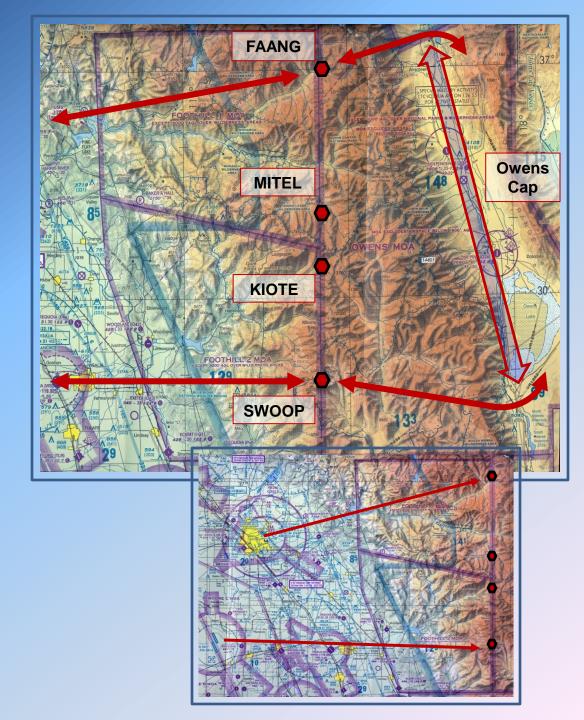
High Altitude Flow

- •Normal traffic flow to/from Owens MOA/ATCAA via FAANG or SWOOP
- Avoid using MITEL or KIOTE during high density traffic periods – normally weekdays 0900L to 1600L
- Check in with Joshua for Complex Clearance
- Check in on Complex Common as needed for area deconfliction











Special Activity Areas...Weather Areas

Area 1: Eastern Half of R-2515 Divided by Highway 395

Western Half of R-2515 Divided by Highway 395

Area 3: Isabella MOA/ATCAA West of the PMD 330° Radial

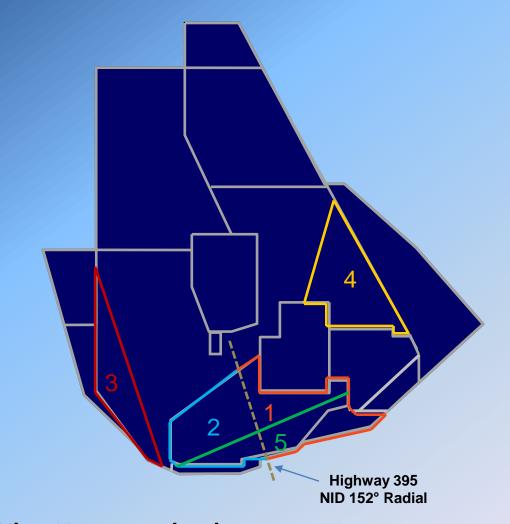
Area 4: Panamint MOA/ATCAA East of the BTY 182° Radial

Area 5: R-2515 South of the FIM 049°
Radial & Barstow MOA/ATCAA









What Users need to know...

- Areas exist in the Southern Portion of the Complex
- Areas are Released to ZLA for Air Carrier WX Avoidance
- Joshua will keep users updated on areas/altitudes released
- If you're unfamiliar area location advise Joshua and request assistance in weather area avoidance.



Special Activity Areas

Inyo-Kern Transition Area
Joshua Phraseology: ITA

Hours: 0500–0700, 1100–1300,
 1800-0000 Local Time

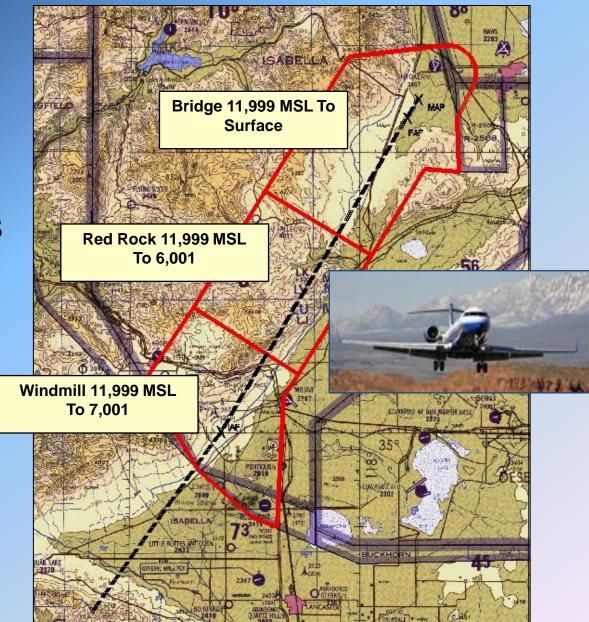
All clearances <u>Exclude</u> the ITA during above hours

 Aircrews may request clearance to transit/operate in area at any time





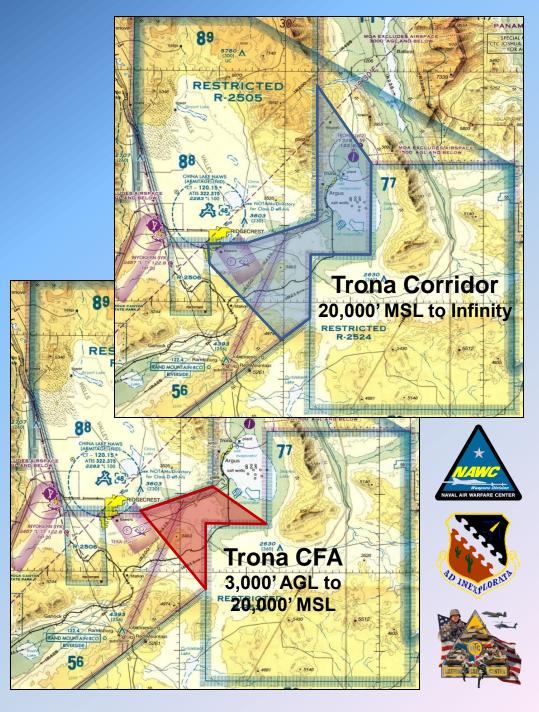






Special Activity Areas

- Trona Corridor
- Altitudes: 20,000' MSL to Infinity
- Used to Protect Path of Free Flight
 Weapons Across Trona Gap
- Used For UAS Transitions
- May Be Used in Conjunction With Trona Controlled Firing Area – CFA
- Trona Controlled Firing Area CFA
- Altitudes: 3,000 AGL to 20,000 MSL
- Used to Protect Path of Free Flight Weapons Across Trona Gap





Special Activity Areas

- CR Briggs Mine Blasting
- Flying Rock to Unknown Altitudes
- Blasting Times Unless otherwise coordinated, 1100-1230L and 1600-1730L Daily
- Avoid when flying low level in southern Panamint Valley











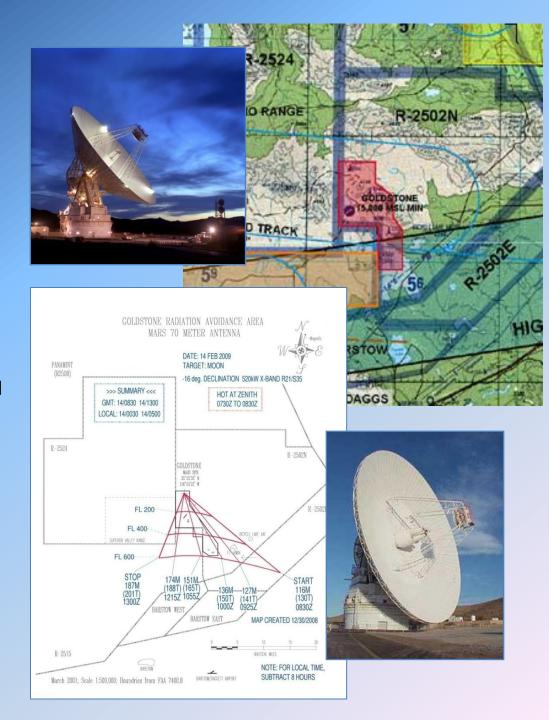
Special Activity AreasNASA Goldstone Facility

- Overflight Restriction
 - 15,000 MSL or Higher as Scheduled
 - Check Daily Brief Sheet for Times, altitudes and areas affected
- Joshua Approach, SPORT, and China Control will advise Users of Affected Areas











Special Activity Areas

Air-Refueling Operations Refueling Areas within the Complex are:

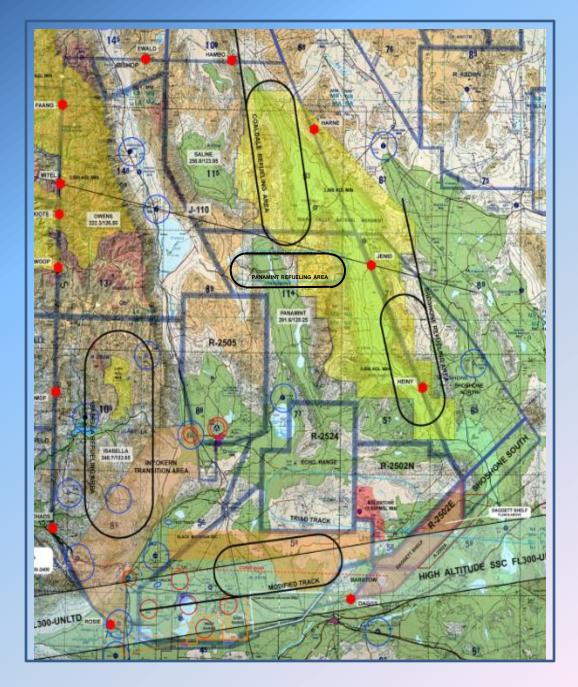
ARISB: PMD 345/35 to 70 Left Turns

AROAL: OAL 155/60 to 90, Left Turns

• ARSHN: BTY 150/60 to 40, Left Turns

 ARPAN: 36.27.00N 117.00.00W to 36.27.00N 117.30.00W to 36.17.00N 117.30.00W to 36.17.00N 117.00.00W,

Left Turns





Special Activity Areas

- Cal City Drop Zone: Para-drops
 @ or below 15,000' MSL Joshua will advise on jumpers away
- Wave Camp Area: Concentrated
 Glider Activity All altitudes
- Koehn Dry Lake: Amateur Rocket Launch activity.
 - Launch Altitudes to 50,000' MSL
 - Joshua will advise of Launches
 - Rocket Clubs provide safety observers











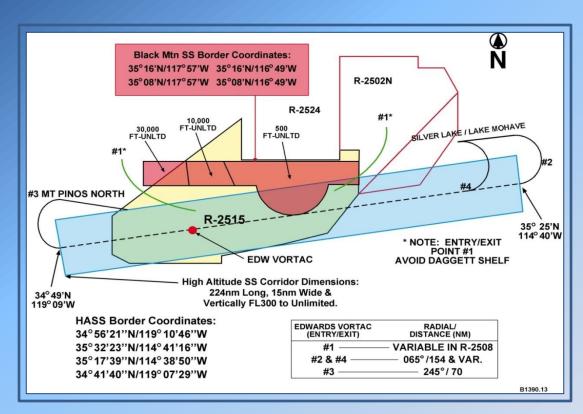
Special Activity Areas

- Supersonic Areas
- Black Mountain Supersonic
 - Tiered Bottom
- High Altitude Supersonic
 - At or Above FL300
 - Entry/Exit 1 within R-2515
 - Avoid Daggett Shelf
 - Other Entry/Exit Point usage Requires Prior Coordination with SPORT and Center









Supersonic operations

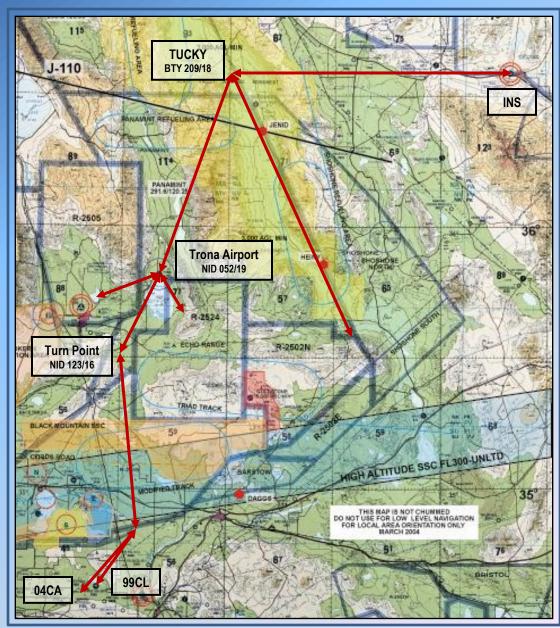
- Only in authorized areas
- Refer to R-2515 in-flight procedures (AFFTCI 11-1) regarding use of High Altitude and Black Mountain areas (Edwards Airspace Office DSN 527-4453)
- Refer to (internal) range procedures, as applicable
- Schedule Supersonic Operations with AFFTC Resource Operations Center (ROC) DSN 527-3940



UAS Transition Routes

- INS..TUCKY..R2502
- INS..TUCKY..Trona Airport
 - ❖ From Trona Airport Transition to R2505, R2524, R2515, 99CL, or 04CA
- All Transitions flown at FL190 or FL200 Correct Altitude for Direction of Flight







Chaff & Flares

Chaff/ECM

- Requires specific frequency management approvals (usually via unit)
- Notify CCF when scheduling airspace
 Additional (internal) range rules may apply

Flares

 Internal restricted areas <u>ONLY</u> & requires specific approval











Low Level Procedures

- For sustained flight below 1,500' AGL
- Requires notification/check-in with JOSHUA Approach
- Operating frequency 315.9 MHz, NOT Monitored by ATC
- Use as Unicom for <u>blind transmissions</u>, <u>pilot to pilot only</u>
- State Call sign, type aircraft, location and intentions
- Provides cross frequency communication capability with Land Management Agencies

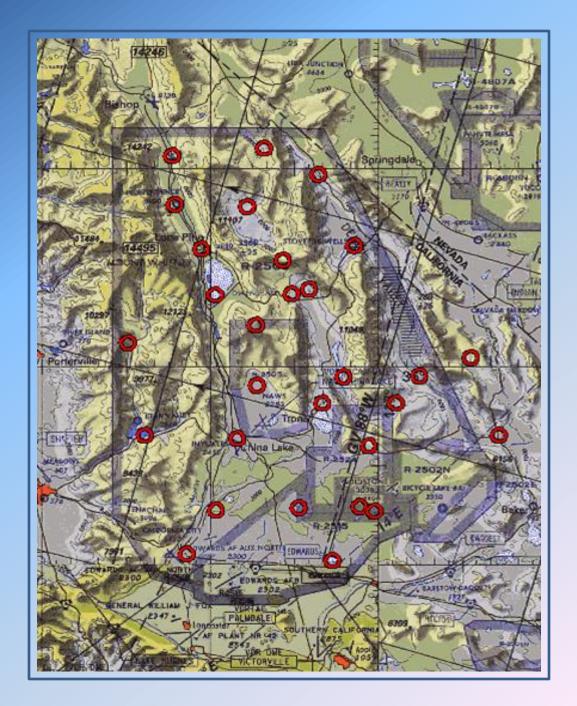




GEO Reference Points

- Reference points used for aircraft communications during low level operations in the R2508 Complex and to communicate aircraft position on 315.9.
- A detailed list of locations in Users Handbook paragraph
 3.1.3







Lights Out &Targets of Opportunity

Lights-Out Operations

- May be conducted within <u>internal</u> restricted areas
- Within R-2508 IAW Unit/CCB LOP

Do Not Select Targets of Opportunity

 Highlighting test aircraft may result in a security violation or interruption of an expensive test











R-2508 Complex Daily Brief Sheet

- What's going on the next day
- UAS Transitions
- Unusual/Special Operations
- Future Operations



R-2508 COMPLEX DAILY BRIEF SHEE DOES NOT INCLUDE ACTIVITIES SCHEDULED WITHIN INTERNAL RESTRICTED AREAS R-2508 Website http://www.edwards.af.mil/r-2508.asp



R-2508 COMPLEX DAILY BRIEF SHEET

DOES NOT INCLUDE ACTIVITIES SCHEDULED WITHIN INTERNAL RESTRICTED AREAS R-2508 Website http://www.edwards.af.mil/r-2508.asp

> 03 March 09 Page 1 of 4

SCHEDULED REFUELING OPERATIONS

DATE/TIME (Z) ALTITUDES 032045Z - 032330Z UNIT ARISB FL220 - FL250 445th/EDW

SPECIAL ACTIVITIES/OPERATIONS

0330Z - 0700Z, 03 - 05 MAR. LIGHTS OUT OPERATIONS

0.502 - 0.7002, to - 0.5 MAR.

Four F-16s conducting Lights Out operations in Saline and Panamint ATCAA FL200 B FL350.

SEE ATTACHED MAP (S). UAS TRASITIONS REAL TIME UPDATES AVAILABLE FROM JOSHUA

FUTURE OPERATIONS

Large Force Exercise

SEE ATTACHED MAP (S). SEE AT LACHED MAP (5).
REAL TIME UPDATES AVAILABLE FROM JOSHUA. REAL TIME UPDATES AVAILABLE FRUM JUSHUA.

Approximately 15 – 20 aircraft conducting carrier based strikes into all R-2508 work areas and R-

Approximately 15 – 20 aircraft conducting carrier based strikes into an R-2508 work areas and R-2524, R2505. Tanker support will be conducted in ARISB refueling area, allitude to be determined. <u>Linmanned rocket launches</u>

Linmanned rocket launches will be conducted on Saturday March7-8, 8:00 am to 5:00 pm from the vicinity of Koehn Dry Lake, 35° 20,00°N, 117° 53.00°W. Maximum launch altitude will be 26,000 feet MSL.

For more detailed information concerning any of the above information, contact the ** INDICATES CHANGES For more usualistic information concerning any or the above information, contact the R-2508 Central Coordinating Facility at DSN: 527-2508, COMM: (661) 277-2508.

 R2508 Complex
 ALTITUDE
 REFUELING
 ARRSING

 960/0007 - 050445Z
 FL290
 COLUMN CELLAR, OWENS, SALINE, PANAMINT, R2505.
 | RAUSE | RABELLA, OWENS, SALINE, PANAMINT, R2305, R2324 | RAUSE | RABELLA, OWENS, SALINE, PANAMINT, R2305, RAUSE | RA 050300Z - 050445Z| ARISB | ISABELLA, OWENS, SALINE, PANAMINT, RCSUS, ARISB | ISABELLA, OWENS, SALINE, PANAMINT, R250S, ARISB | ISABELLA, OWENS, ARISB | ISABELLA, O 110130Z - 110315Z 120130Z - 120315Z 130130Z - 130330Z

** INDICATES CHANGES

For more detailed information concerning any of the above information, contact the R-2508 Central Coordinating Facility at DNN; \$27-2508, COMM; (661) 277-2508,



				REAPER 1
ALTITUDE		RETURN	ALTITUDE FL190	
BEECH TO 02.	FL200	040200Z-040230Z	FL190	GRIM I
1730Z-031800Z	FL200	040500Z-040530Z	FL190	REAPER 1
11530Z-031600Z	FL200	050200Z-050230Z	FL190	GRIM 1
41730Z-041800Z	FL200	050500Z-050530Z	FL190	REAPER 1
41530Z-041600Z		060200Z-060230Z	27.100	GRIM I
051730Z-051800Z	FL200	060500Z-060530Z	FL190	
03173007 04140007	FL200	0001		

For more detailed information concerning any of the above information, contact the R-2508 Central Coordinating Facility at DNN: 527-2508, COMM: (661) 277-2508.



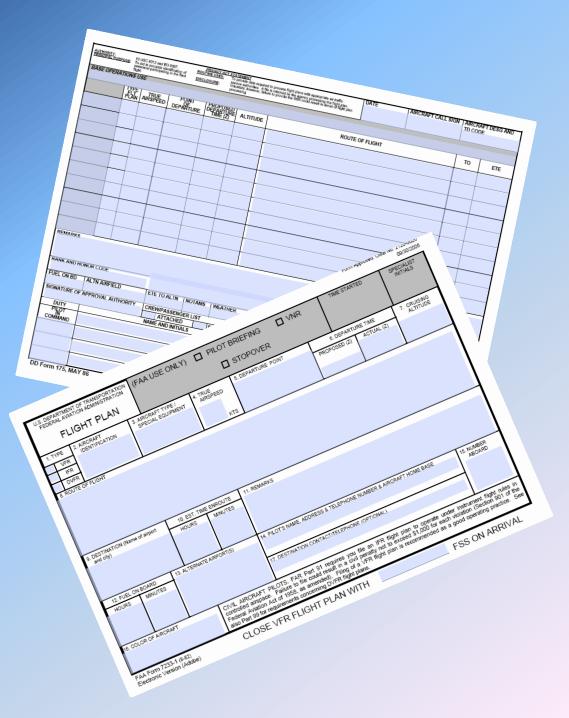
IFR Flight Planning

- Flight Plans should be filed with 2 separate legs...
- Leg 1: Departure point, route of flight, R-2508 entry point, R-2508 as destination.
- Leg 2: R-2508, R-2508 exit point, flight route, destination airport/fix
- Do not file a delay in the Complex
- Filing a delay may result in the loss of the second half of your flight plan
- May result in extensive delay in receiving IFR Clearance out of area











Entry/Exit Points

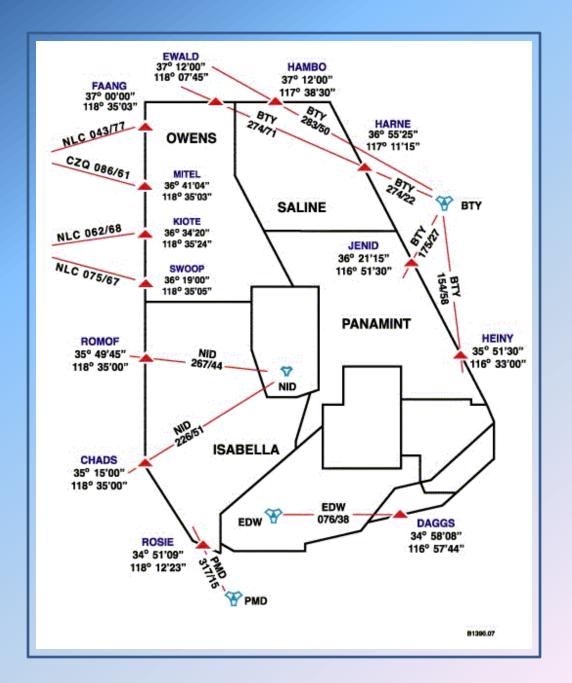
Flight Plan Entries...

- FAANG, DAGGS, ROSIE, SWOOP, KIOTE, and MITEL are published FAA Entry/Exit Points.
- Other Entry/Exit Points entered via Lat/Long or Radial & DME
- *NID TACAN is unmonitored when China Lake airfield is closed.









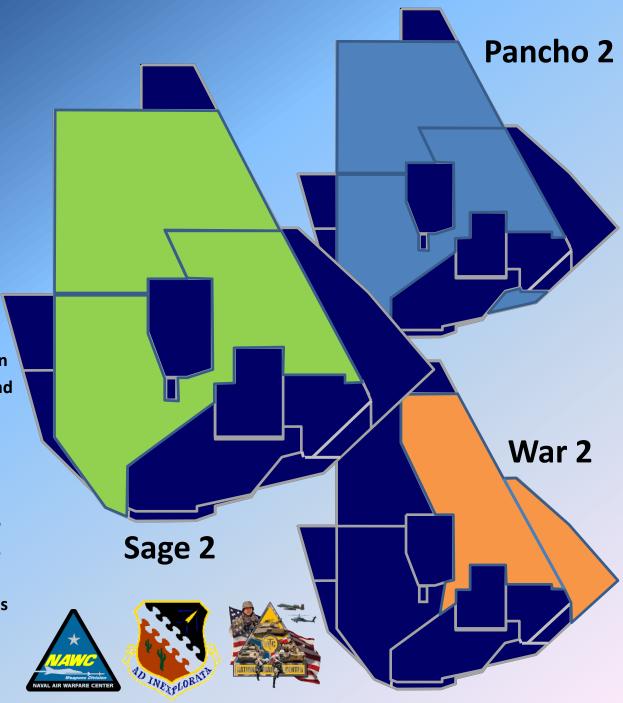


Complex Clearances

SAGE 2: Isabella, Owens, Saline, and Panamint, FL290 and below

PANCHO 2: Clearance to operate within Isabella and Panamint work areas at and below FL500, and Owens and Saline work areas at and below FL290... Only EDW, NID, and PMD based aircraft are authorized a PANCHO 2

WAR 2 Clearance: Clearance to operate in the Saline and Panamint Work Areas at and below FL290, Shoshone MOA, and Shoshone North and South ATCAA's at and belowFL230.





Scheduling

CCF Office Hours - Monday thru Friday 0600-1800L, excluding holidays

- Schedule NLT 1700L Day Prior
- Schedule NLT 1700L Friday for Weekend Operations
- After hours schedule changes: Call CCF After Hours Number <u>1-866-805-2851</u>
 - Used for changes to previously scheduled missions







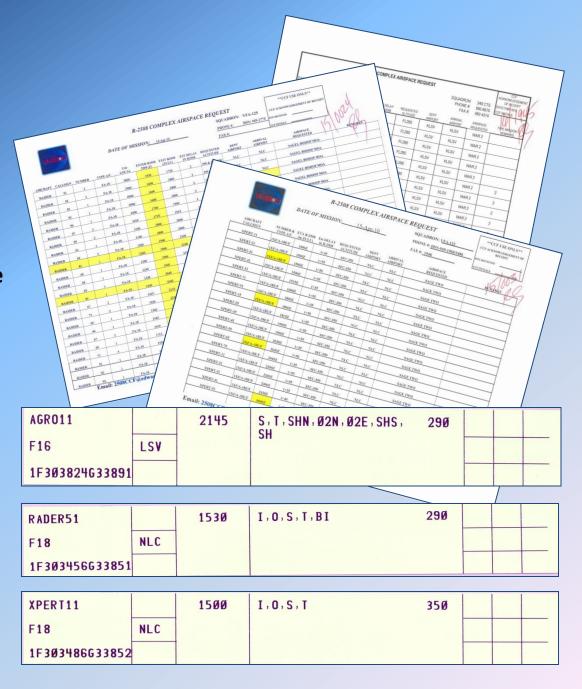
Scheduling

- Scheduling data used to Generate ATC Flight Plan Information and Flight Progress Strip for Joshua
- Flight Strip is **Your Ticket** for entry into the Complex
- Use R-2508 Complex Airspace Request Form and Submit via Fax or Email
- Units will receive return acknowledgement
- Changes to received schedules MUST be called in, emailed, or Faxed to CCF
- Include internal restricted areas as scheduled with Using Agency











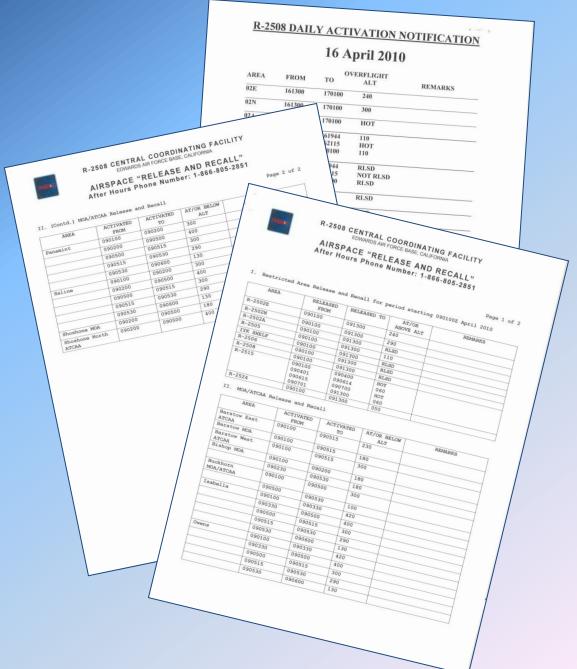
Scheduling

Why CCF Needs your Airspace Request Form NLT 1700L Day Prior (Friday for Weekends)

Airspace Activation, Release and Recall Information is sent to Los Angeles Center NLT 1700L

Late scheduling could result in Mission Loss or Delay



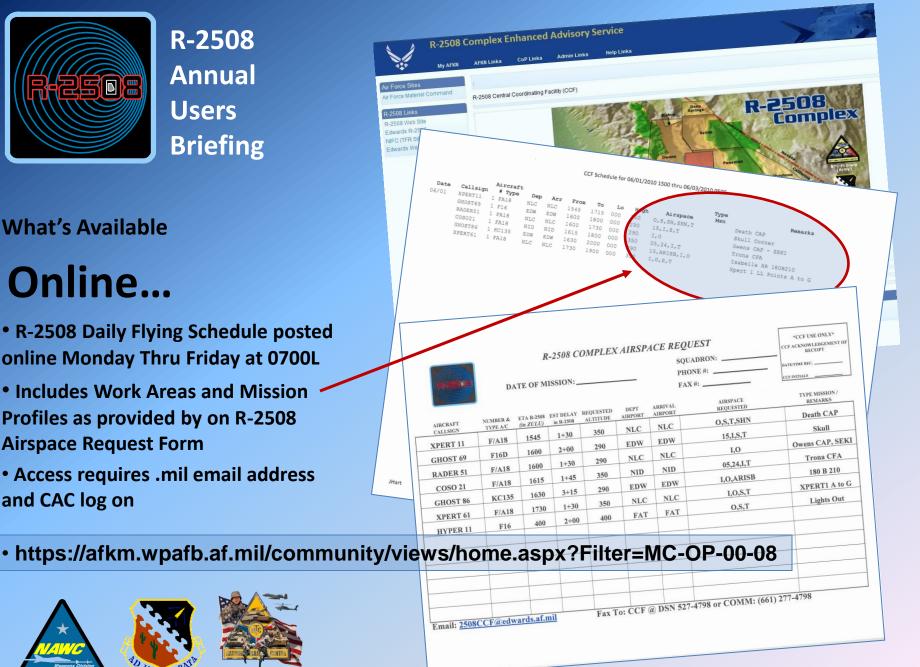




What's Available

Online...

- R-2508 Daily Flying Schedule posted online Monday Thru Friday at 0700L
- Includes Work Areas and Mission Profiles as provided by on R-2508 **Airspace Request Form**
- Access requires .mil email address and CAC log on











What's Available

Online...

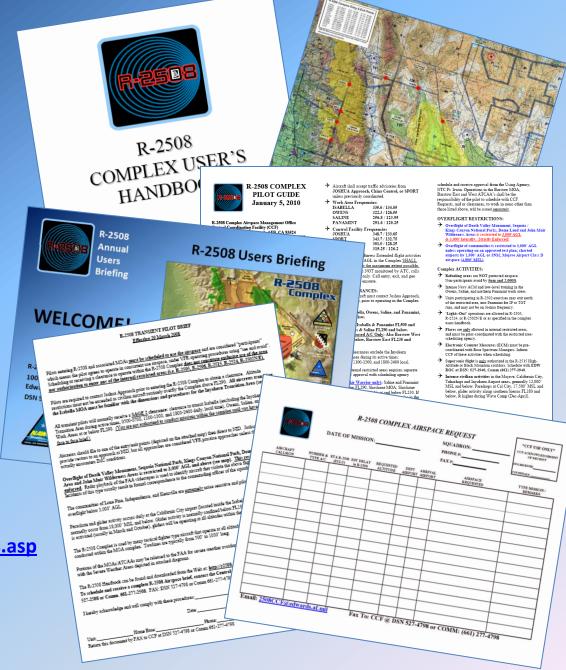
- Users Handbook
- This Briefing
- Airspace Request Form
- Situation Report (SITREP)
- Pilot Guide & Map
- NID Transient Pilot Brief
- Where?

http://www.edwards.af.mil/r-2508.asp







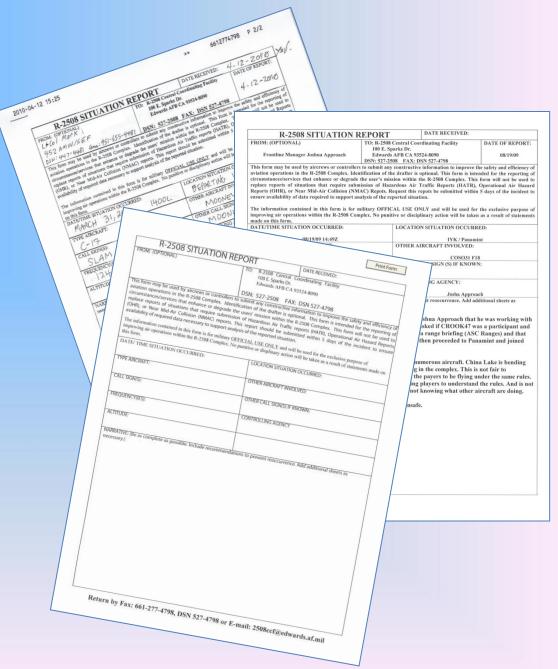




SITREP

(R-2508 Situation Report)
Official Communication
Official Response
Don't wait too long...







R-2508 Central Coordinating Facility



Questions?

- Co-Located with Joshua Approach
- Here to Support your Operations
 - DSN 527-2508 or Commercial 661-277-2508
 - FAX 527-4798 or Commercial 661-277-4798
 - <u>2508ccf@edwards.af.mil</u>
 - Online Information
 - http://www.edwards.af.mil/r-2508.asp
 - https://afkm.wpafb.af.mil/community/views/home.aspx?Filter=MC-OP-00-08





